



P07 41795

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

June 21, 2000

In re application of: Carol W. Readhead, Robert Winston,
H. Phillip Koeffler and Carsten Müller
Serial No.: 09/292,723
Filed on: April 15, 1999
Title: TRANSFECTION, STORAGE AND TRANSFER OF MALE GERM
CELLS FOR GENERATION OF TRANSGENIC SPECIES &
GENETIC THERAPIES

Examiner: Unknown
Group: 1632

TRANSMITTAL OF FORMAL DRAWINGS

Assistant Commissioner for Patents
Washington, D. C. 20231

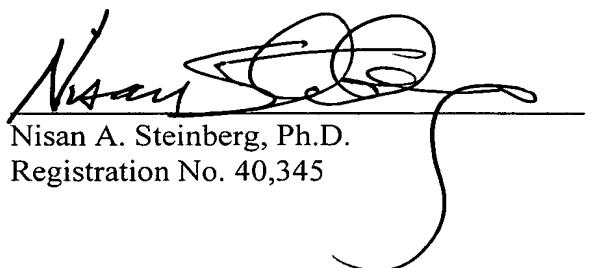
Attention: Drawing Review Branch

Sir:

Transmitted herewith for filing in the above-identified application are nine sheets of formal drawings.

Respectfully submitted,

PRETTY, SCHROEDER & POPLAWSKI, P.C.


Nisan A. Steinberg, Ph.D.
Registration No. 40,345

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Enclosure

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FIG. 1

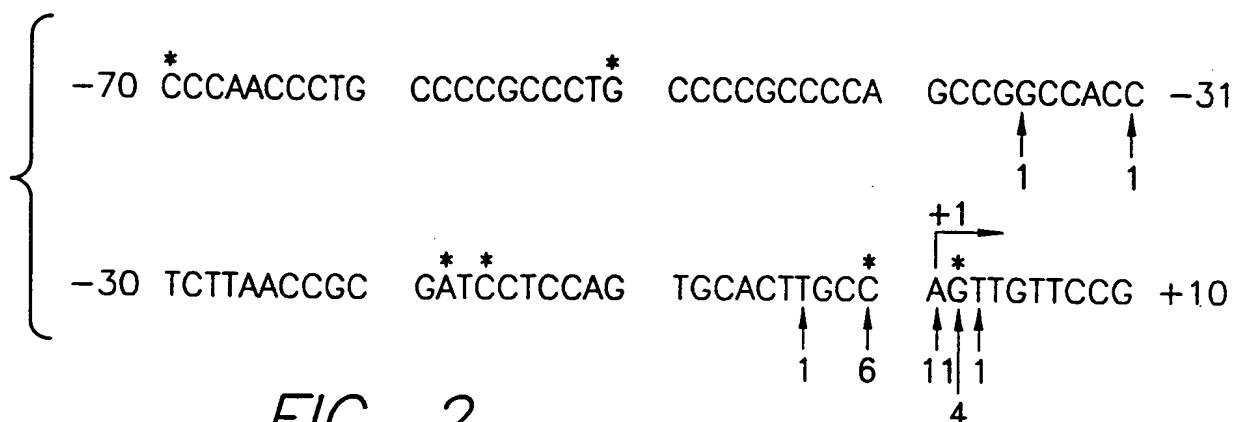
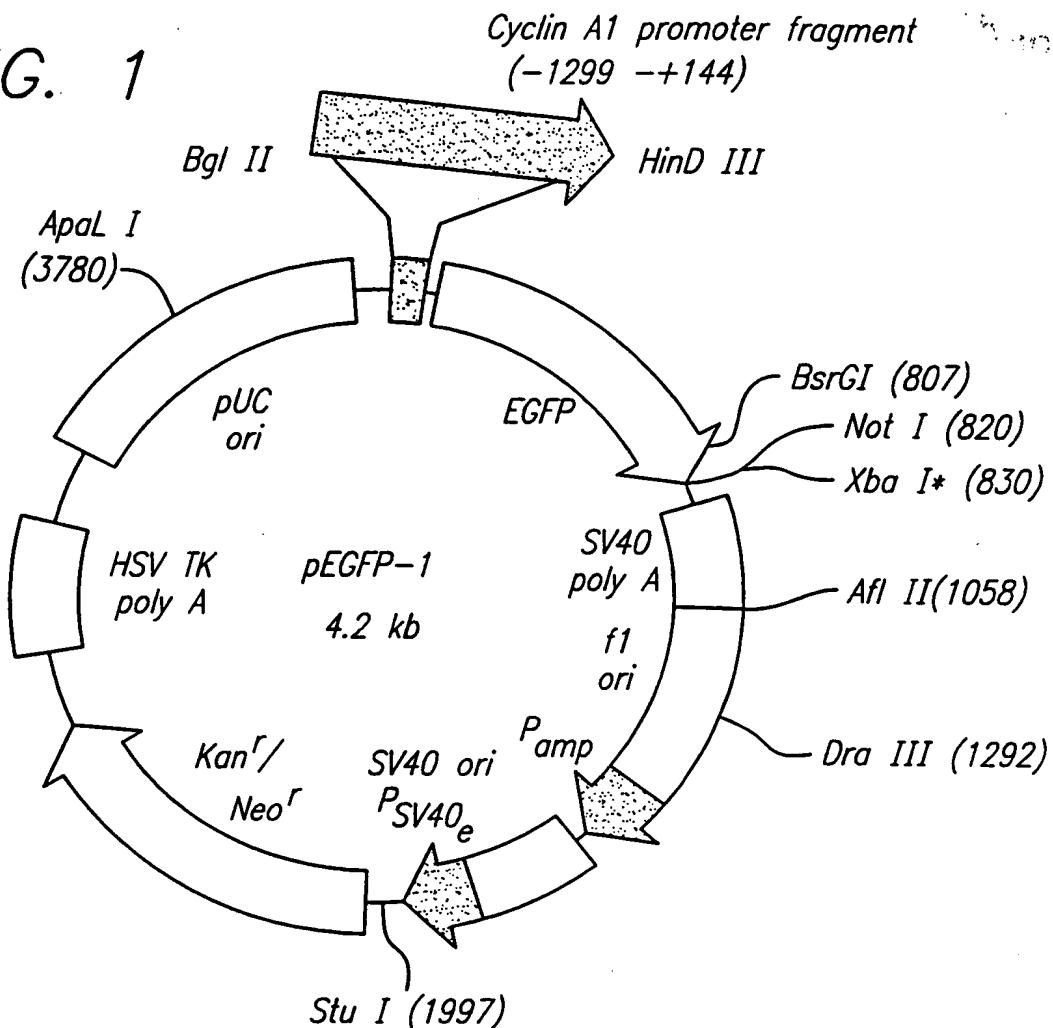


FIG. 3

-1299 TCGATCTGAT TTAGAGATT AGGGATGGAT GTTTAAAAAA AAGCAAAAGT
 -1249 AGTAACAGAC TATAGCATTG GTAATGTGTG TGTGCATATA TACATATTAT
 -1199 TTTAAAAAA ATAAAGTTCG ATTATTCAC CTGGCTTGTG AGTCACCTAT
 -1149 GCAGGCGTCT GAGCCCCCGG GTTCCAGGA GCCCCCCGTA TAAGGACCCC
 -1099 AGGGACTCCT CTCCCCACGC GGCGGGGCGG CCCGCCGGC CCCCAGCCG
 -1049 GAGAGCTGCC ACCGACCCCC TCAACGTCCC AAGCCCCAGC TCTGTCGCC
 -0999 GCGTTCTTC CTCTTCTGG GCCACAATCT TGGCTTCCC GGGCCGGCTT
 -0949 CACGCAGTTG CGCAGGAGCC CGCGGGGGAA GACCTCTCGT GGGGACCTCG
 -0899 AGCACGACGT GCGACCTAA ATCCCCACAT CTCTCTGCG GCCTCGCAGG
 -0849 CCACATGCAC CGGGAGCCGG GCAGGGCAGG CGCGGCCCGC AAGGACCCCC
 -0799 GCGATGGAGA CGCAACACTG CCGCGACTGC ACTTGGGGCA GCCCGCCGC
 -0749 GTCCCAGCCG CCTCCCGGCA GGAAGCGTAG GTGTGTGAGC CGACCCGGAG
 -0699 CGAGCCGCGC CCTCGGGCCA GCGTGGGCAG GGCGCCGCAG CCTGCGCAGC
 -0649 CCCGAGGACC CCGCGTCGCT CTCCCAGGCC AGGGTTCTCA GGAGCGGGCC
 -0599 GCGCAGGAGA CGTTAGAGGG GGTTGTTAGC GGCTGTTGGG AGAACGGGT
 -0549 ACGGAAACAG TCCCTTCAA AGCCGGGGCC ATCGTGGGGT GGGCGAGTCC
 -0499 GCCCTCCCAG GCCGGGGCG CGGACAGAG GGGACGTGTG CAGACGGCG
 -0449 CGGTCAAGCCC CACCTCGCCC GGGCGGAGAC GCACAGCTGG AGCTGGAGGG
 -0399 CCGTCGCCCC TTGGGCCCTC AGGGGCCTGA ACGCCCAGGG GTCGCGGCGA
 -0349 GTCCACCCGG AGCGAGTCAG GTGAGCAGGT CGCCATGGCG ATGCGGCC
 -0299 GGAGAGCGCA CGCCTGCCGC GGTCGGCATG GAAACGCTCC CGCTAGGTCC
 -0249 GGGGGCGCCG CTGATTGGCC GATTCAACAG ACGCGGGTGG GCAGCTCAGC

-190 -160

-0199 CGCATCGCTA AGCCCGGCG CG CTCCAGGC TGGAAATCCCT CGACACTTGG
 GC-box 6

-120 -112

-0149 TCCTTCCGC CCCGCCCTTC CGTGCCCTGC CCTTCCCTGC CCTTCCGC GC-box 4
 GC-box 5

-37 +1

-0099 CCTGCCCGC CGGGCCCCGGC CCGGCCCTGC CCAACCTGC CCGGCCGTGC
 GC-box 3 GC-box 2

-0049 CGCCG CAGC CGGCCACCTC TTAAC CGCGA TCCTCCAGTG CACTTGCCAG
 GC-box 1 Myb

+0003 +144

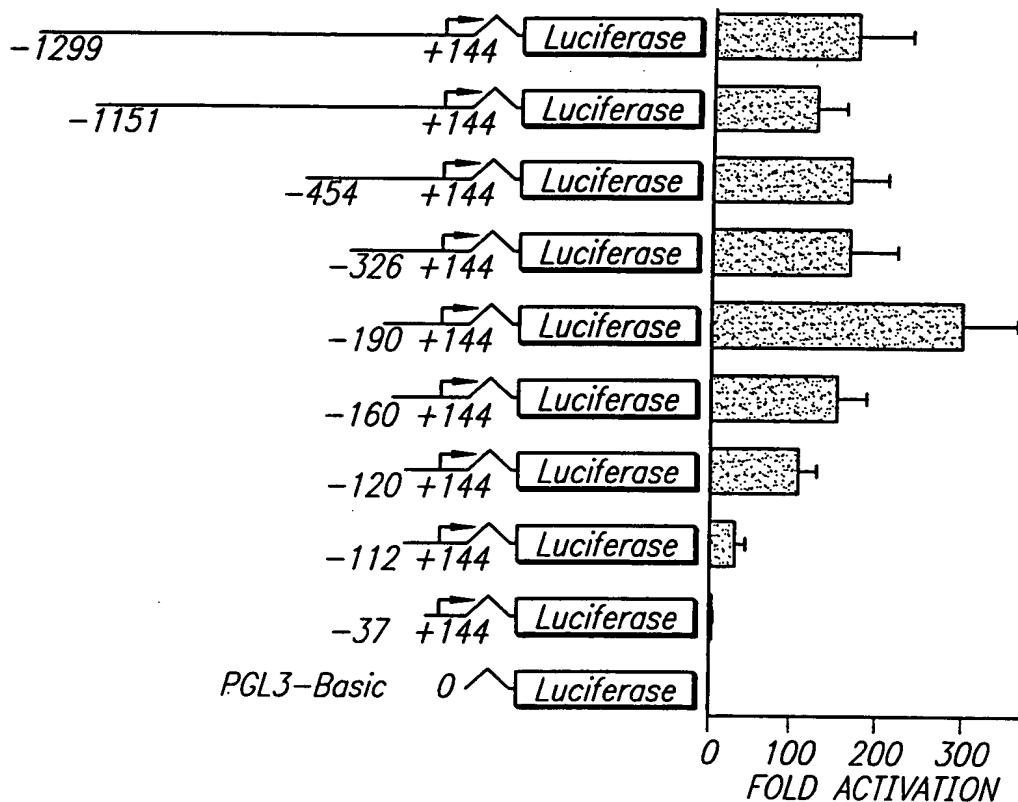
+0003 TTG TTCCGGAA CACATAGAAA GATA ACGACG GGAA GACGGG GCCCGTTG
 Myb GATA-1 ets

+0053 GGGTCCAGGC AGGTTTTGGG GCCTCCTGTC TGGTGGGAGG AGGCCGCAGC

+0103 GCAGCACCCCT GCTCGTCACT TGGGATGGAG ACCGGTTTC CGGCAATCAT
 E2F

3/9

FIG. 4



FOLD ACTIVATION

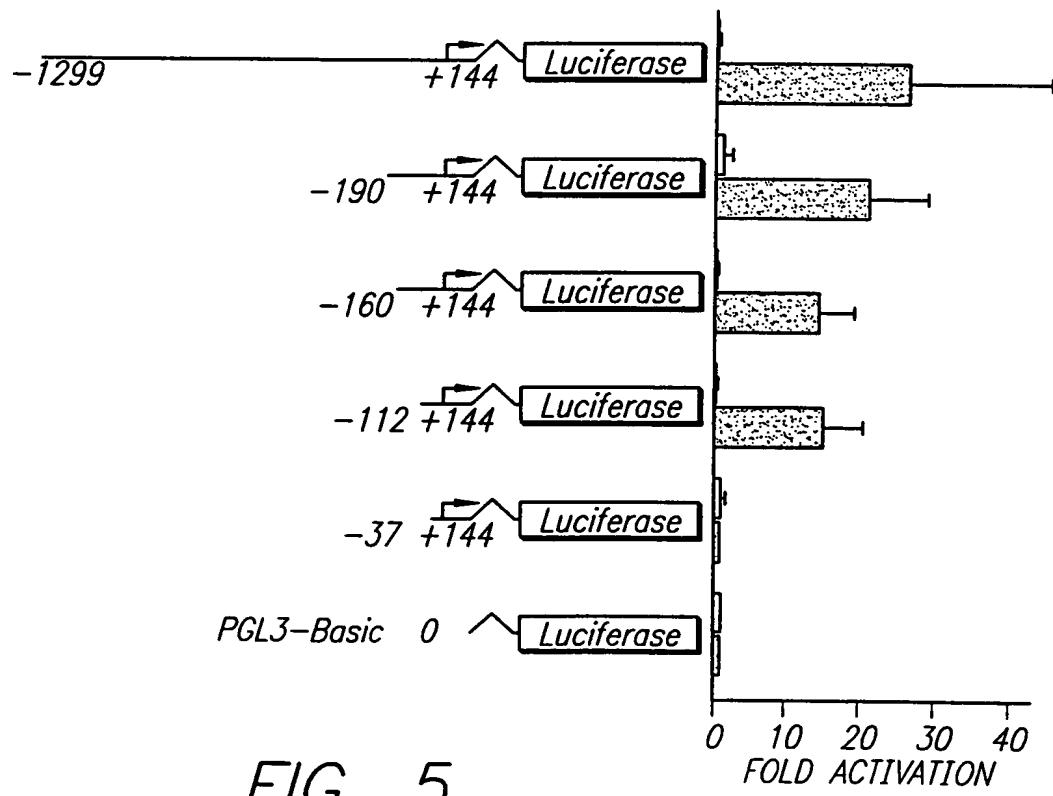


FIG. 5

FOLD ACTIVATION

FIG. 6

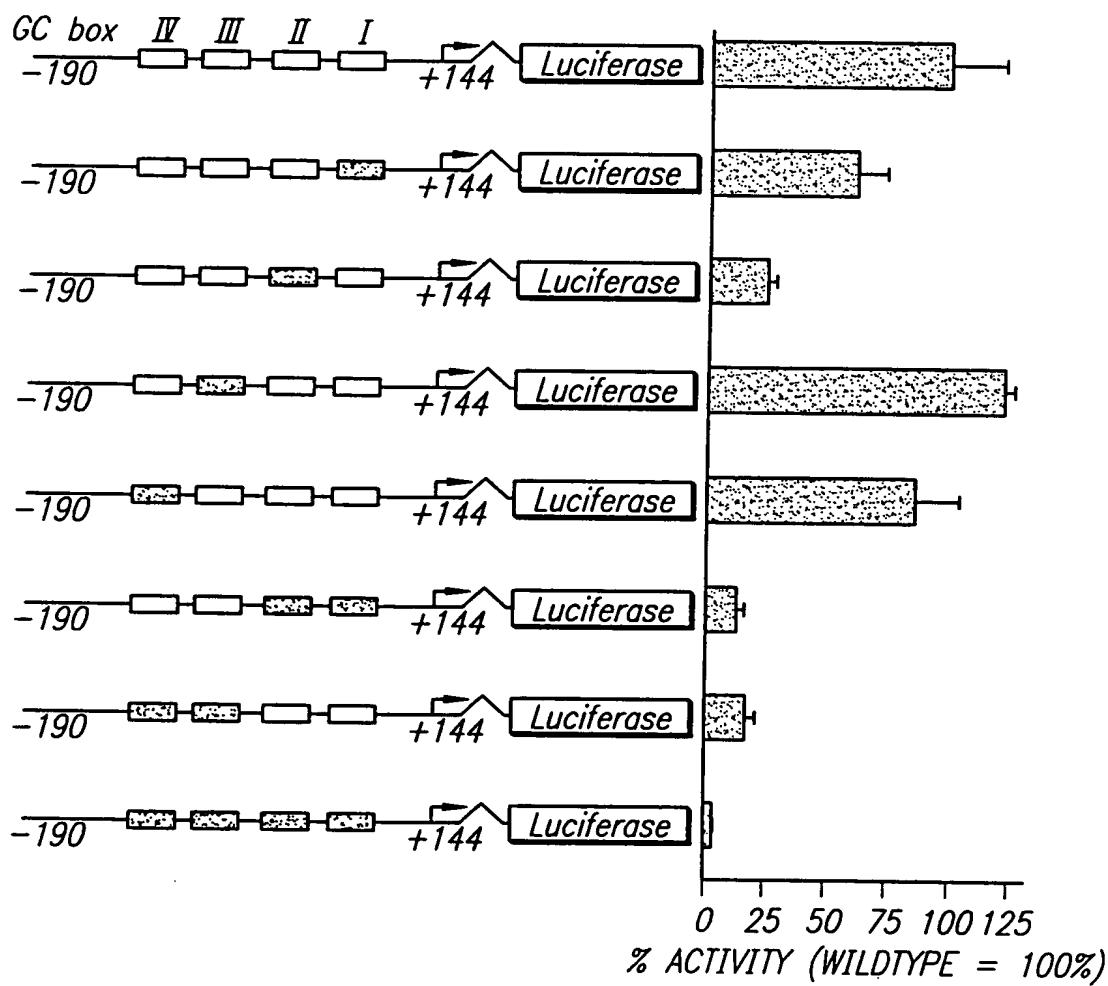
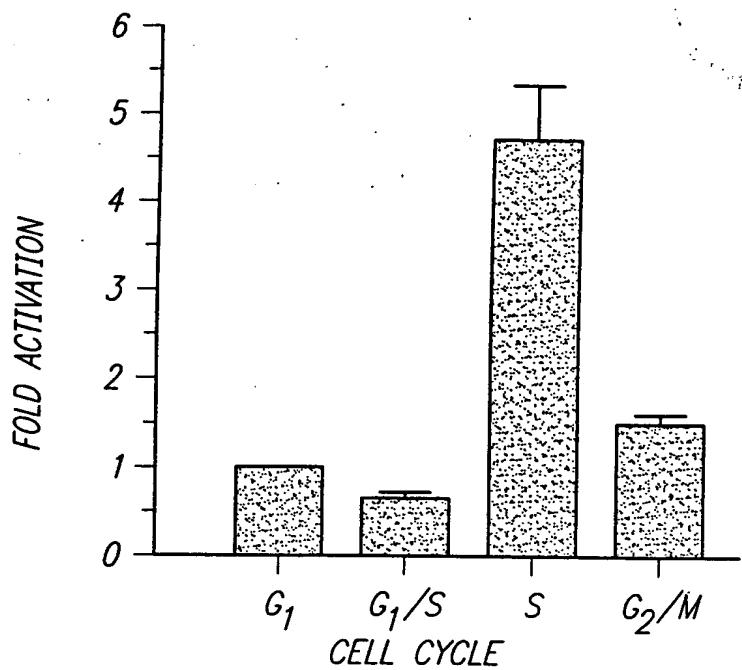


FIG. 7a



FOLD ACTIVATION (ACTIVITY AT 0 h = 1)

FIG. 7b

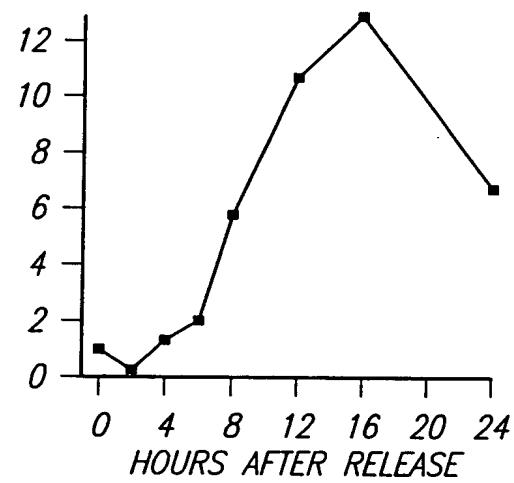


FIG. 7c

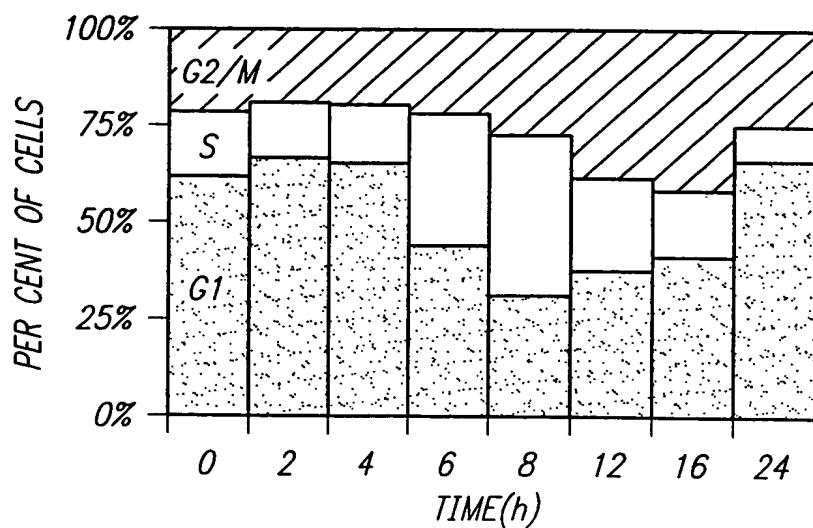


FIG. 8a



FIG. 8b

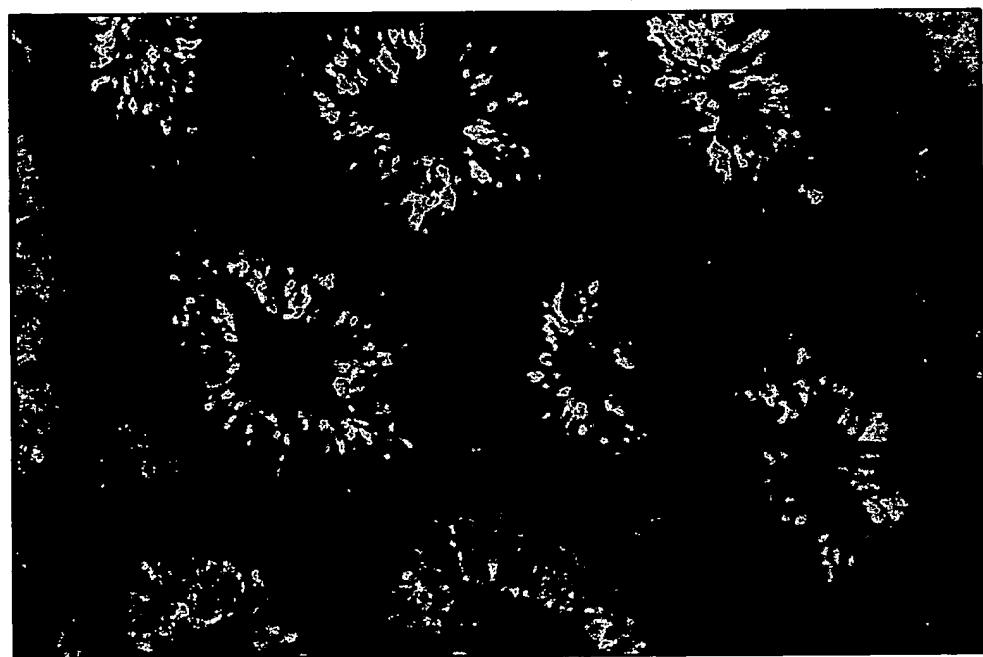
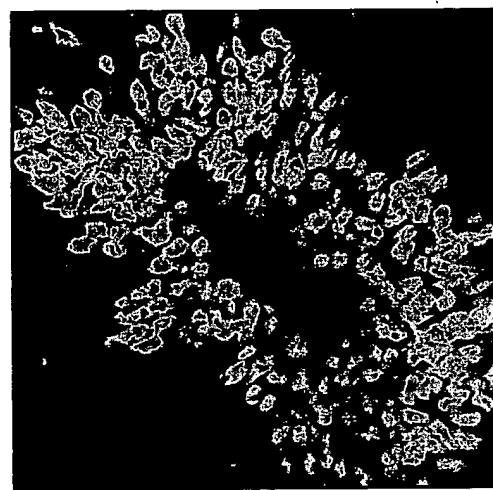


FIG. 8c

FIG. 9a

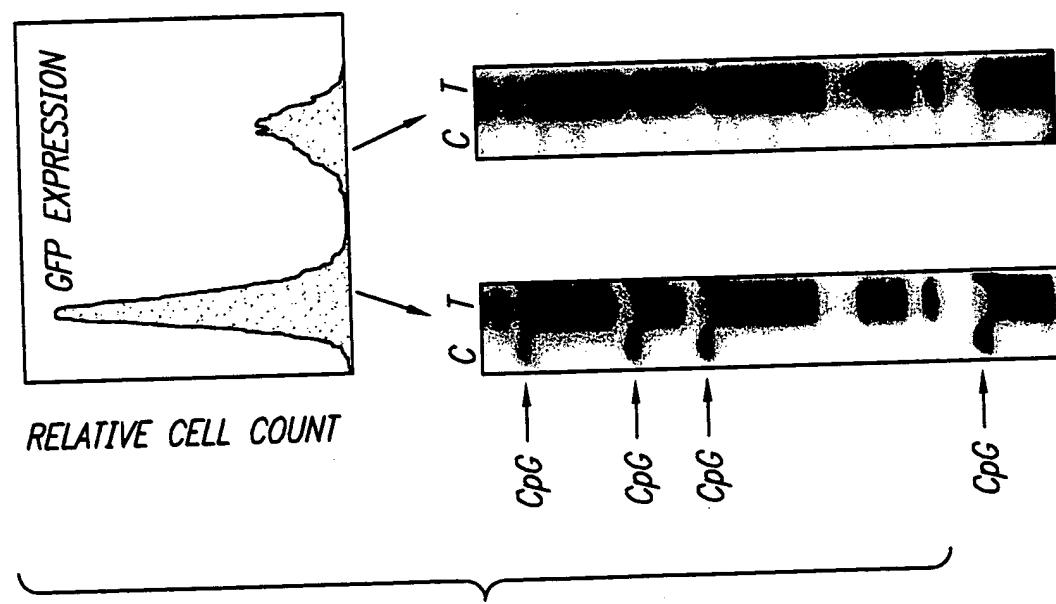


FIG. 9b

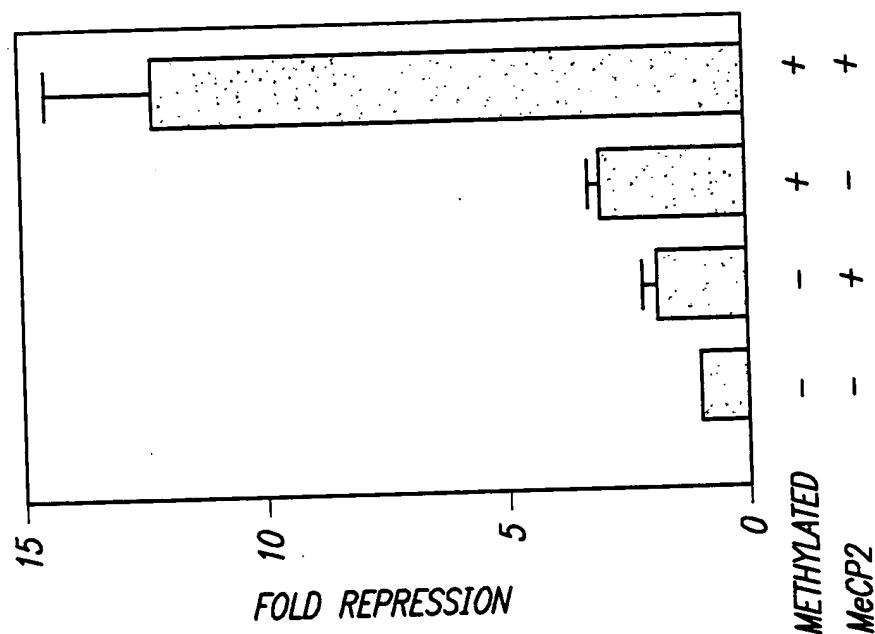


FIG. 10a

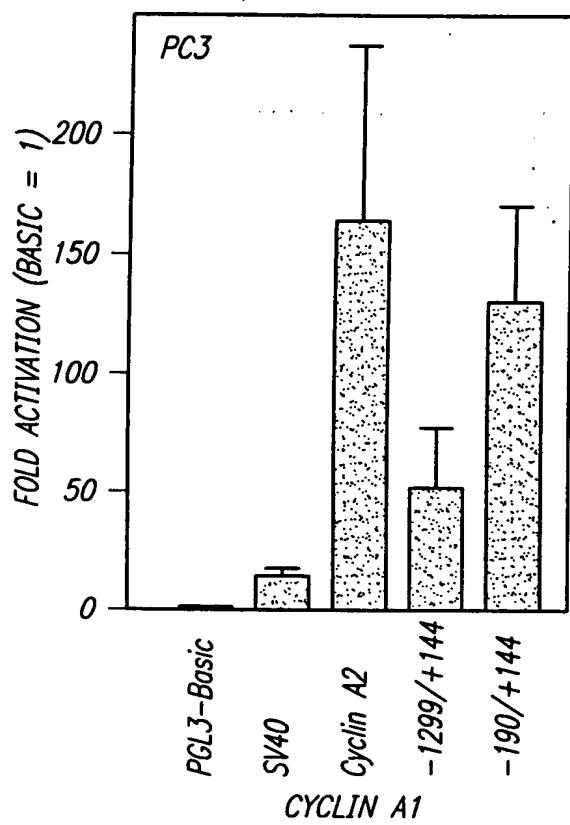


FIG. 10b

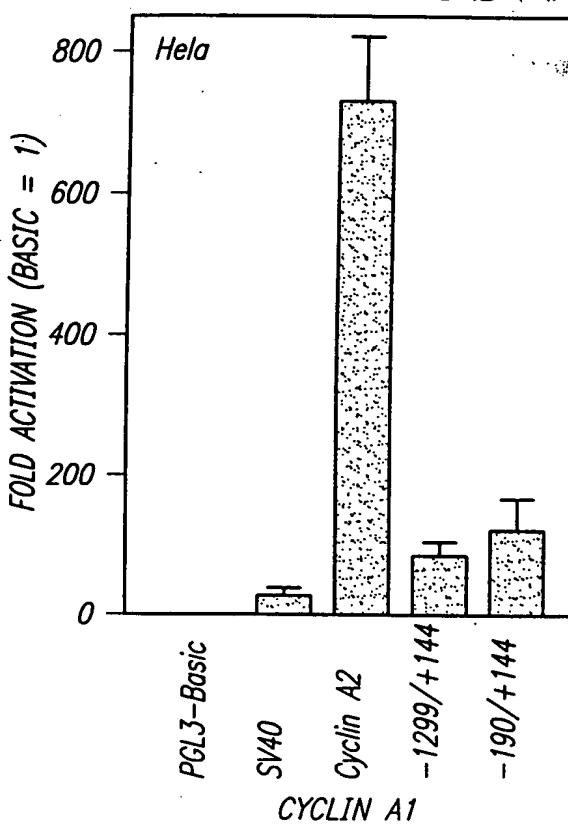


FIG. 10c

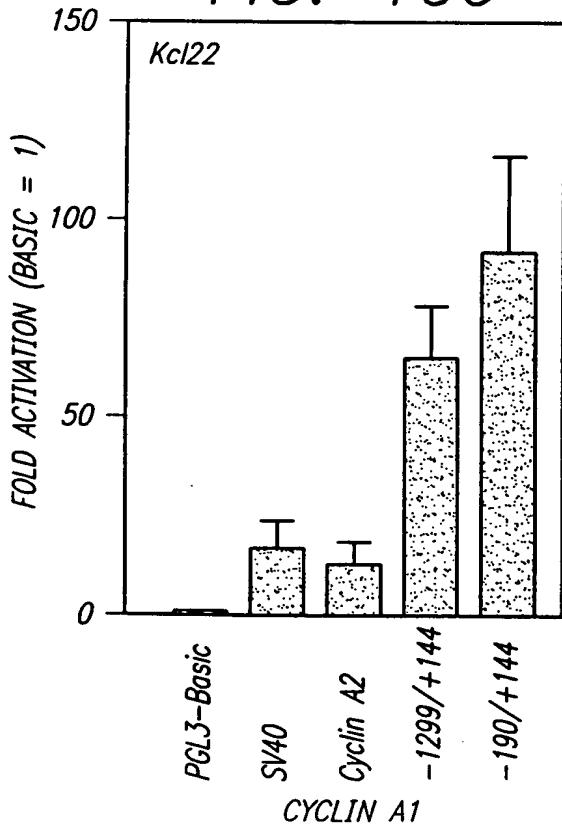


FIG. 10d

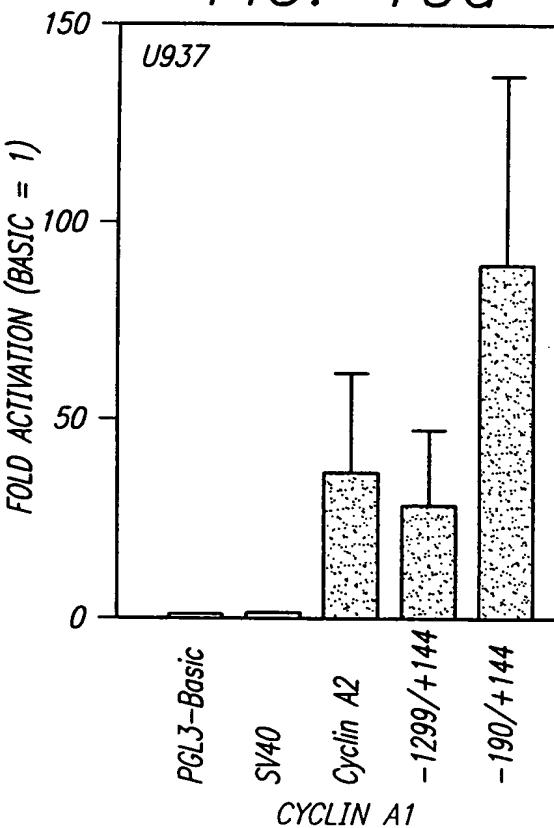


FIG. 11a

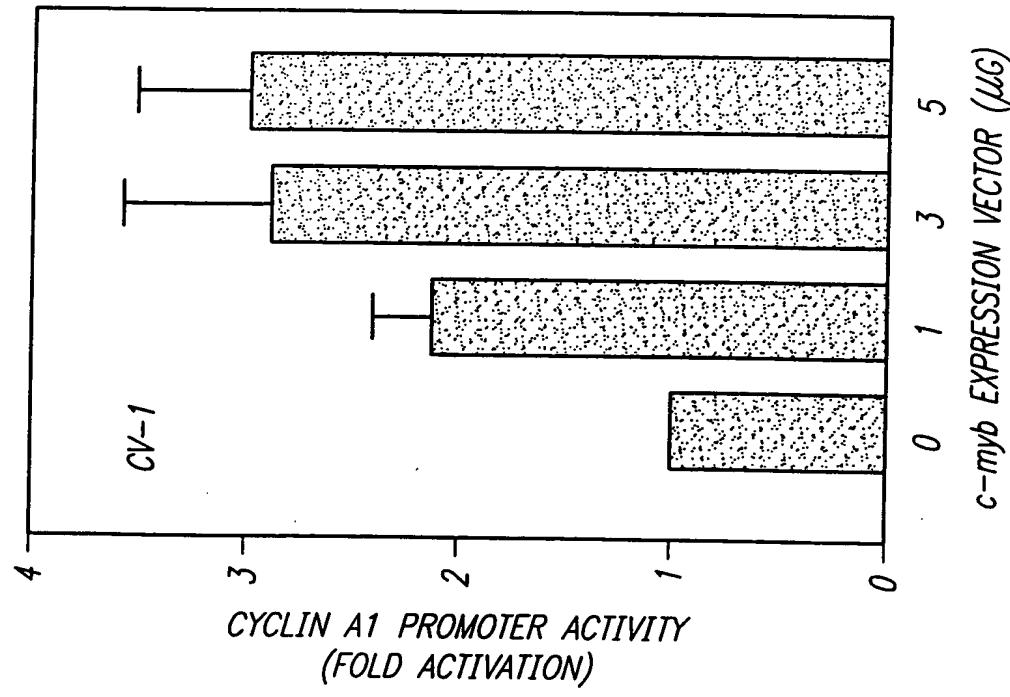


FIG. 11b

